KEH-P9250/KEH-P8250
MULTI-CD/DSP CONTROL FM/AM
TUNER DECK AMPLIFIER

KEX-P820
MULTI-CD/DSP CONTROL
FM/AM TUNER DECK

SUPER TUNER IV

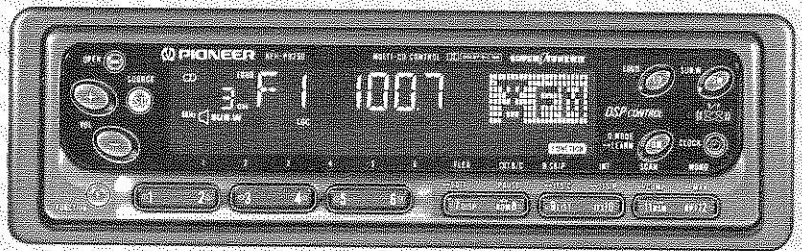
OWNER'S MANUAL

Thank you for purchasing this PIONEER product. Before attempting operation, be sure to read this manual.

Nous vous remercions d'avoir acheté cet appareil PIONEER. Avant de l'utiliser, prendre soin de lire ce manuel.

Muchas gracias por la adquisición de este producto PIONEER. Antes de tratar de operarlo, lea atentamente este manual.

شكرا لك على شرائك جهاز بايونير هذا. قبل محاولة تشغيله تأكد من قراءة



KEH-P9250

PIONEER®

The Art of Entertainment

KEH-P9250 KEH-P8250
KEX-P820

ENGLISH

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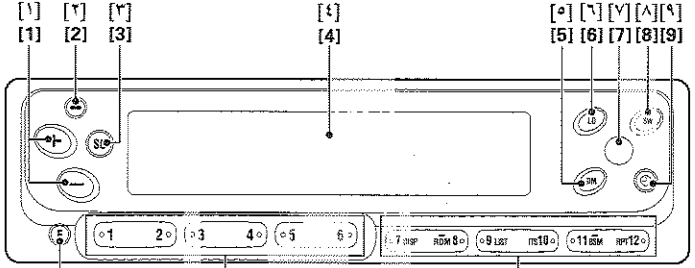
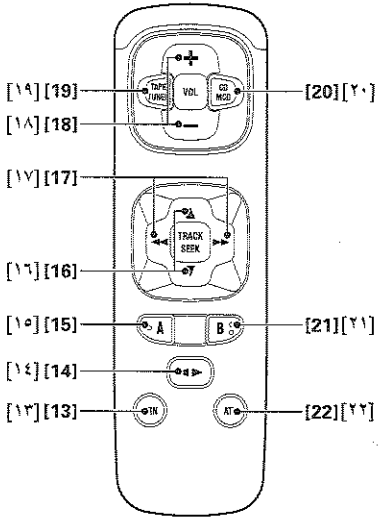
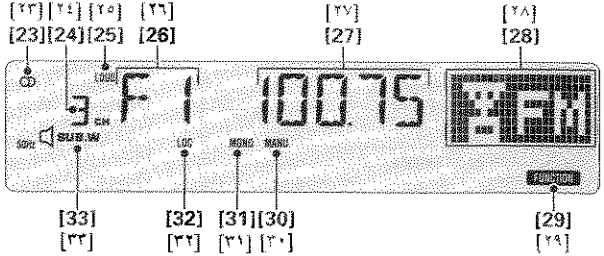


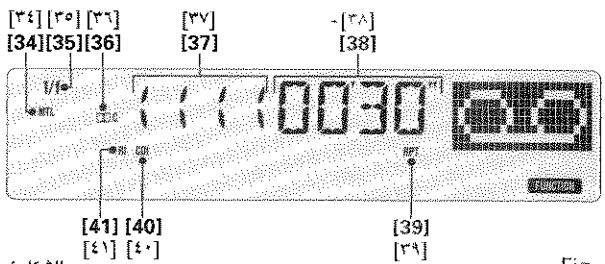
الشكل ١ Fig. 1



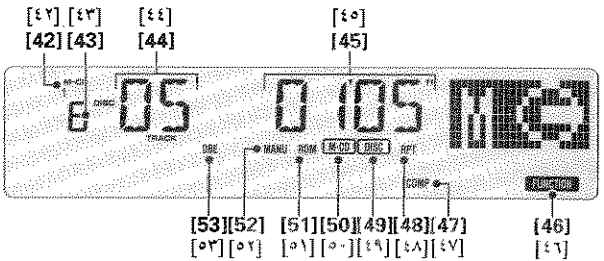
الشكل ٢ Fig. 2



الشكل ٣ Fig. 3



الشكل ٤ Fig. 4



الشكل ٥ Fig. 5

Precautions

Note:

- If the car's battery is disconnected for any reason, the preset memory will be erased and must be reprogrammed after reconnection of the battery.

In case of trouble

When the unit does not operate properly, contact your dealer or the nearest authorized PIONEER Service Station.

Organization of this Manual

This is the Owner's Manual for the KEH-P9250, KEH-P8250, and KEX-P820. The KEH-P8250 and KEX-P820 differ from the KEH-P9250 as follows.

KEH-P8250

- There is no amplifier input terminal. (When a DSP is connected, the speaker cannot be connected to the internal amplifier in this unit. A separately sold amplifier is required.

KEX-P820

- There is no internal amplifier. A separately sold amplifier is required.

Note to Customers Using this Unit in Combination with the "DEQ-P800" Hideaway DSP

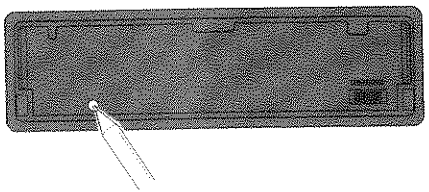
This manual does not describe operating procedures for combined use with the "DEQ-P800" Hideaway DSP. Please refer to the Hideaway DSP Owner's Manual for DSP operating details.

Using the Clear Button

Pressing the Clear button will reset the microprocessor. Press the Clear button in the following cases:

- When using the unit for the first time after connecting it.
- When there is a misoperation.
- When the display indicates a misoperation.

Remove the front panel and use the tip of a pen, etc., to press the Clear button. (To remove the front panel, refer to "Detaching the Front Panel".)



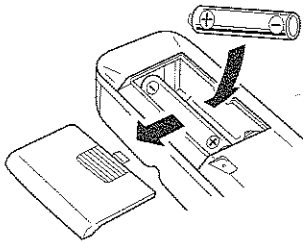
Using the Remote Controller

Parts Identification

Fig. 1
[7] Remote Controller Sensor

Fig. 2
[21] DSP

Inserting the Batteries

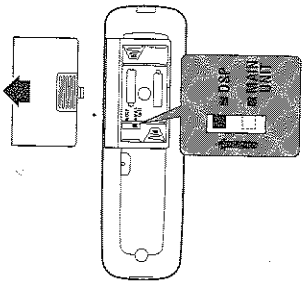


Precautions

- *Do not place the remote control unit in high temperatures or in direct sunlight.*
- *Install the batteries in the proper direction.*
- *Use only UM-4, AAA, or IEC R03 1.5 V batteries.*
- *Do not mix old and new batteries.*
- *The batteries provided with the unit are not rechargeable. Therefore do not recharge them.*
- *If the remote control unit is not to be used for more than a month, remove the batteries.*
- *If there is battery leakage, wipe the leakage completely and install new batteries.*
- *Hold the remote controller with your hand and point it toward the remote controller sensor [7] when performing an operation.*
- *It is extremely dangerous if the remote controller should fall to the floor and become lodged under the brake pedal when braking or cornering. When you are not using the remote controller, always keep it in place with the Velcro tape provided.*
- *It may not be possible to perform remote control operations if the remote controller sensor [7] is exposed to direct sunlight.*
- *Button [21] is used when the unit is combined with a DSP.*

Note to Customers Using this Unit in Combination with a DSP except for the "DEQ-P800" Hideaway DSP

When using this unit in combination with a DSP except for the "DEQ-P800" Hideaway DSP, first set the switch on the rear of the remote controller to the DSP position, using the tip of a pen, etc. The system will not work properly unless this is done.



Using the Removable Front Panel

Parts Identification

Fig. 1
[2] Open
[4] Front Panel
[11] ③ Warning Buzzer ON/OFF

Function

To prevent theft, the front panel is detachable. Also, if the front panel is not detached within 5 seconds after the car's ignition is turned off, a warning beep tone will sound to remind you to detach the front panel.

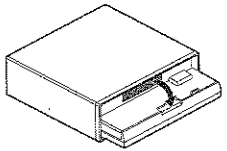
Canceling the Warning Beep Tone

The warning beep tone function can be canceled. While pressing button ③ of bank [11], turn the ignition key from OFF to ON. To turn ON the warning beep tone function again, repeat this operation.

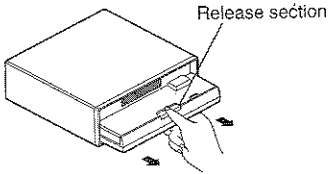
ENGLISH

Detaching the Front Panel

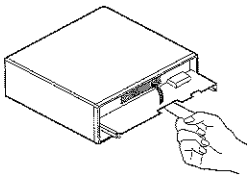
1. Press button [2], and the front panel [4] will open.



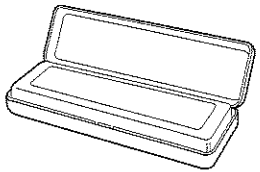
2. Grip the release section and pull the front panel forward.
- *Take care not to grip the front panel display tightly, or to drop the panel.*



3. Close the inner cover.
- *After detaching the front panel, be sure to close the inner cover to prevent dirt, dust or other foreign matter from entering the cassette slot.*

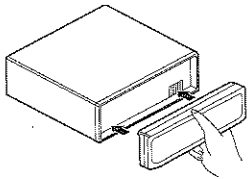


4. Keep the detached front panel in the protective case provided.



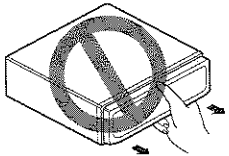
Fitting the Front Panel

1. Check that the inner cover is closed.
2. Press the front panel onto the body of the unit.
- *Take care not to press any buttons or the display while doing this.*

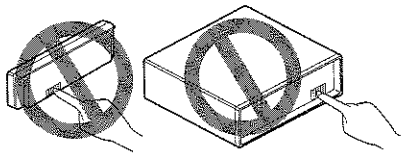


Precautions

- *Do not use unnecessary force in detaching the front panel.*



- *Do not hold the display tightly.*
- *Do not subject the front panel to excessive shock.*
- *Do not place the front panel in high temperatures or direct sunlight.*
- *Do not use benzene, paint thinner, or other volatile fluids to clean the front panel.*
- *Do not disassemble the front panel.*
- *Do not touch the terminals on the front panel and unit. (If the terminals are dirty, use a clean dry cloth to clean.)*



Switching the Source

Parts Identification

Fig. 1
[3] Source Switching
[10] ⑦ AUX ON/OFF

Fig. 2
[19] Source Switching (Tape Deck, Tuner)
[20] Source Switching (Multi-CD Player)

Switching the Source on the Main Unit

Each time button [3] is pressed, the source changes in the following sequence:
Tape deck — Tuner — Multi-CD player — OFF

Switching the Source Using the Remote Controller

Each time button [19] is pressed, the source changes in the following sequence:
Tape deck — Tuner — OFF
Each time button [20] is pressed, the source changes in the following sequence:
Multi-CD player — OFF

- The source will not be switched to the tape deck if there is no cassette tape in the deck.
- The source will not be switched to the multi-CD player if a multi-CD player is not connected, or if a magazine is not loaded in the player.

When connecting other audio equipment to the IP-BUS terminal of the main unit using the separately sold conversion cord.

When listening to the audio equipment, carry out the following operations to switch to AUX mode.

1. While pressing ⑦ of button [10], turn the ignition key from OFF to ON.
2. Switching sources allows selection of AUX mode. Therefore, press button [3] to switch to AUX mode.
   Tape — Tuner — Multi-CD player — AUX — OFF

- When performing an operation with the remote controller, the source is not switched to AUX.

Switching the Display

Parts Identification

Fig. 1
[5] Display Switching

Fig. 3
[28] Message Display

Switching the Message Display

Display [28] changes as follows each time button [5] is pressed:
Source and mode symbol — Signal indicator

When the Unit is Used in Combination with the "DEQ-P800" Hideaway DSP

When the unit is used in combination with the "DEQ-P800" Hideaway DSP, display [28] changes as follows each time button [5] is pressed:
Source and mode symbol — Signal indicator — SFC* symbol — Equalizer curve
*SFC: Sound Field Control

- Display [28] is useful for checking the SFC and qualizer curve settings.

Making Audio Adjustments

Parts Identification

Fig. 1
[1] Volume
[6] Loudness
[8] Sub-woofer/Sub-woofer adjustment mode

Fig. 2
[15] Shift/SLA
[16], [17] Audio Adjustment
[18] Volume
[22] Attenuator

Fig. 3
[25] Loudness
[33] Sub-woofer

Mode Switching

Each time button [15] is pressed, the mode changes in the following sequence:
Volume adjustment (VOL) → Balance adjustment (FAD/BAL) → Tone adjustment (BAS/TRE)

- When a fader, balance, or bass/treble adjustment is made, the adjustment stops temporarily at the center position. The display changes back to its previous state approximately 8 seconds after an adjustment is made.

When the Unit is Used in Combination with the "DEQ-P800" Hideaway DSP

When the unit is used in combination with the "DEQ-P800" Hideaway DSP, the mode changes in the following sequence each time button [15] is pressed:
Volume adjustment (VOL) → Balance adjustment (FAD/BAL) → Automatic volume adjustment (ASL)

- Please refer to the Hideaway DSP Owner's Manual for the use of automatic volume adjustment (ASL).

Adjusting the Volume

The volume is increased by pressing the (+) side of button [1] or [18], and decreased by pressing the (–) side. (Display shows "VOL 00" ~ "VOL 30".)

- *When driving, the volume should be adjusted to a level that allows sounds outside the vehicle to be heard.*

Adjusting the Balance

Press button [15] to select the balance adjustment mode ("FAD" lights). Fader adjustments are made using the ▲ or ▼ side of button [16]. To adjust the balance, press either the ◀◀ or ▶▶ side of button [17] to display "BAL", then make the adjustment with the ◀◀ or ▶▶ side of the button.

Fader

The balance is gradually changed to front speaker sound only, by pressing the ▲ side of button [16], and to rear speaker sound only, by pressing the ▼ side. (Display shows "FAD F9" ~ "FAD R9".)

- When a two-speaker system is used, you should set "FAD 0".

Balance

The balance is gradually changed to left speaker sound only, by pressing the ◀◀ side of button [17], and to right speaker sound only, by pressing the ▶▶ side. (Display shows "BAL L9" ~ "BAL R9".)

Adjusting the Tone

Press button [15] to select the tone adjustment mode ("BAS" lights). Use the ◀◀ or ▶▶ side of button [17] to select the tone you want to adjust. Pressing the ◀◀ side selects BAS, and pressing the ▶▶ side selects TRE.

Bass Adjustment

Select the bass adjustment mode. Bass intensity is gradually increased by pressing the ▲ side of button [16], and decreased by pressing the ▼ side. (Display shows "BAS –6" ~ "BAS +6".)

Treble Adjustment

Select the treble adjustment mode. Treble intensity is gradually increased by pressing the ▲ side of button [16], and decreased by pressing the ▼ side. (Display shows "TRE –6" ~ "TRE +6".)

Sub-woofer

When a sub-woofer is used with the unit, the sub-woofer setting should first be switched to ON.

Using the Sub-woofer Function

Press button [8] to turn the sub-woofer function ON ("SUB.W" [33] lights). To cancel the sub-woofer function, press button [8] again ("SUB.W" goes off).

Adjusting the Frequency and Output Level

1. Press button [8] to turn the sub-woofer function ON ("SUB.W" [33] lights).
2. Press button [8] for 2 seconds or more to change to the sub-woofer adjustment mode ("80Hz 0" is displayed).
3. Adjust the frequency and output level adjustment while the sub-woofer display is shown. Press the ◀◀ or ▶▶ side of button [17] to adjust the frequency, and press the ▲ or ▼ side of button [16] to adjust the output level. The frequency can be set to 50 Hz, 80 Hz, or 125 Hz, and an output level can be selected in the range from –6 to +6.

Adjusting the Loudness

The loudness function compensates for deficiencies in the low and high sound ranges when listening to the unit at low volume.

Press button [6] to turn the loudness function ON ("LOUD" [25] lights). To cancel the loudness function, press button [6] again ("LOUD" goes off).

Using the Source Level Adjuster

This function compensates for the difference in volume when the source is switched.

- Compensation is performed on the basis of the FM volume, and therefore the FM volume cannot be adjusted.

1. Check the FM volume.
2. Switch to the source you want to adjust, and check the difference in volume between that source and FM.
3. Press button [15] for 2 seconds or more to change to the SLA mode. The current level, "V 0", is displayed.

- The SLA mode is canceled after 8 seconds.

4. Adjust the volume level by pressing the ▲ or ▼ side of button [16]. (Display shows "V –4" ~ "V +4".)

Attenuator

Pressing button [22] reduces the volume by approximately 90% ("ATT" flashes). The original volume is restored by pressing the button once again.

Using the Tuner

Parts Identification

Fig. 1
[3] Source Switching
[10], [11] Preset
[10] Functions
⑨ Local Mode/Local Sensitivity
⑪ Preset Scan/BSM
⑫ FM Monaural/Seek, Manual Switching
[12] Function Switching

Fig. 2
[14] Band
[16] Preset Tuning
[17] Tuning
[19] Source Switching

Fig. 3
[23] FM Stereo
[24] Preset Number
[26] Band
[27] Frequency
[29] Function
[30] Manual
[31] FM Monaural
[32] Local Mode

Changing the Tuning Steps

The main unit permits two kinds of tuning steps to be set up. As the tuning step varies from one region to another, switch the tuning step to match the region in which the unit is used.

AM Band

The AM band can be set at either 9 kHz or 10 kHz (the initial setting is 9 kHz). Turn the vehicle ignition to ON while pressing ② of button [11] to switch between 9 kHz and 10 kHz.

FM Band

The FM band can be set at either 100 kHz or 50 kHz (the initial setting is 100 kHz). Turn the vehicle ignition to ON while pressing ① of button [11] to switches between 100 kHz and 50 kHz.

- Carrying out seek tuning when the FM band is set at 50 kHz may cause the tuning to stop just before the broadcast station. Should this occur, perform the tuning again using either manual or seek tuning.

Function Switching

Button [10] has two functions. It switches FM monaural, BSM, etc. ON and OFF, and it also serves as the preset button for the FM1 band. Press button [12] to switch the function as desired.

Functions ON ([29] lit)

To use the buttons in bank [10] with functions such as FM monaural and BSM, set functions ON.

Functions OFF ([29] off)

Leave the function OFF when using button [10] as the preset button for the FM1 band.

Listening to the Radio

1. Press button [3] or [19] to switch the source to the tuner.
2. Press button [14] to select the band. The band changes each time the button is pressed as follows:
   FM1 → FM2 → AM
3. Select a station using manual tuning or seek tuning.
   3–1. Pressing button ⑫ of bank [10] for 2 seconds or more switches between seek and manual tuning alternately. When manual tuning is selected, "MANU" [30] lights.
   3–2. Tune by pressing the ◀◀ or ▶▶ side of button [17]. (When a stereo station is tuned in, "◯" [23] lights.)

- While setting functions OFF, switching between seek and manual tuning cannot be performed. Press button [12] to turn functions ON.

Seek Tuning
When the button is pressed, a station with a signal of a given strength or greater is tuned in automatically.

Manual Tuning
When the button is pressed, the frequency changes step by step.

Preset Memory

The radio stations can be stored in memory under buttons 1 to 6 of [11].

- FM1 bands can be stored in the memory of button [10] (7 to 12). Leave the function OFF when storing memory into button [10].

1. Tune in to the station to be stored in memory.
2. Store the station in memory by pressing one of the buttons (1 to 6) for at least 2 seconds. When the [24] number stops blinking and there is a beep, the station will be stored in memory under the button pressed.
   - Up to 18 FM stations (12 stations on FM1 and 6 stations on FM2) and 6 AM stations can be stored in memory.

Preset Tuning

The radio stations stored in memory can be recalled by pressing the respective button 1 to 6 of [11]. The station stored under that button will be recalled. (The number of the button pressed will be displayed at [24].)

- The FM1 band can recall broadcast stations stored in the memory of button [10].
  Set functions OFF before recalling a station memorized in one of the buttons in bank [10].
- When using the remote controller, a station memorized in a button in bank [10] or [11] can be recalled by pressing the ▲ or ▼ side of button [16].

Note:
When using a button in bank [10] in the operations in the following sections, turn functions ON first.

BSM (Best Stations Memory)

The radio stations having a strong signal can be tuned automatically and stored in memory under buttons 1 to 6 of [11]. Press ⑪ of button [10] for at least 2 seconds. (The "BSM" will blink.) After "BSM" stops blinking, the stations will be stored in memory under buttons 1 to 6 of [11].

- The FM1 band can also be stored in the memory of button [10].
- BSM can be canceled mid-operation by pressing ⑪ of button [10].
- The stations will be stored under buttons 1 to 6 in the order of their signal strength. The strongest station will be stored under button 1, followed by stations with lower signal strengths.
- If there are fewer than 6 stations whose signal is strong, there will be spare memory.
- It will take almost 30 seconds for BSM to be completed.

Preset Scan Tuning

This recalls in sequence all the stations stored in memory under the buttons [11] for 8 seconds each. Press ⑪ of button [10]. (The [24] number will blink.) To cancel, press the button again. After the desired station is tuned, cancel the preset scan tuning. The station will then continue to be received.

- Stations stored in memory under the buttons [11] but whose signal is weak will not be recalled.
- The FM1 band can recall broadcasting stations stored in the memory of button [10].

ENGLISH

Local Seek Tuning

When the local mode is selected, seek tuning sensitivity changes and only stations with a stronger signal than in the case of normal seek tuning are tuned to. The local mode sensitivity can also be adjusted.

To Select Local Mode

Press button ⑨ of bank [10]. ("LOC" [32] lights.) To cancel local mode, press the button once again.

Adjusting Local Seek Sensitivity

The sensitivity can be adjusted in 4 steps for FM and 2 steps for AM.

- LOC-4 tunes in only the stations with the strongest signals, and LOC-3, LOC-2, and LOC-1 tune in stations with progressively weaker signals.

1. Select the local seek sensitivity adjustment mode. Press button ⑨ of bank [10] for 2 seconds or more. (The current sensitivity is displayed.)
   - The local seek sensitivity adjustment mode is canceled after approximately 5 seconds.
2. Press the ◀◀ or ▶▶ side of button [17] to adjust the sensitivity.

FM Monaural Reception

If the noise in a stereo broadcast is distracting, you can reduce the noise by switching to monaural reception. Press button ⑫ of bank [10]. ("MONO" [31] lights.) To cancel monaural reception, press the button once again.

Using the Tape Deck

Parts Identification

Fig. 1

[2] Open
[3] Source Switching
[4] Front Panel
[10] Functions
- ⑦ FLEX (Frequency Level Expander)
- ⑧ Dolby B and C NR
- ⑨ Blank Skip
- ⑩ Radio Intercept/CD Intercept
- ⑪ Scan Playback
- ⑫ Repeat Playback

Fig. 2

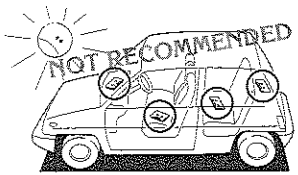
[14] Tape Direction Switching
[17] Fast Forward/Rewind and Music Search
[19] Source Switching

Fig. 4

[34] Metal
[35] FLEX (Frequency Level Expander)
[36] Dolby B and C NR
[37] Tape Direction Display
[38] Continuous Playback Time Display
[39] Repeat Playback
[40] CD Intercept
[41] Radio Intercept

About Cassette Tapes

- *Do not use tapes longer than C-90-type (90 min.) cassettes. Longer tapes can interfere with tape transport.*
- *A loose or warped label on a cassette tape may interfere with the eject mechanism of the unit or cause the cassette to become jammed in the unit. Avoid using such tapes or remove such labels from the cassette before attempting use.*
- *Storing cassettes in areas directly exposed to sunlight or high temperatures can distort them and subsequently interfere with tape transport.*



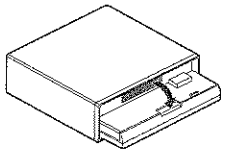
- *Store unused tapes in a tape case where there is no danger of them becoming loose or being exposed to dust.*

Cleaning the Head

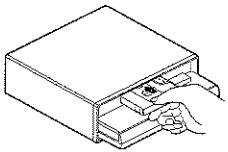
- *If the heads become dirty, the sound quality will deteriorate and there will be sound dropouts and other imperfections in performance. In this case, the head must be cleaned.*
- *When using a cleaning tape, play it once on one side for normal cleaning. Excessive use of the cleaning tape will increase head wear. Be sure to read the cleaning tape instructions before use.*

Listening to a Tape

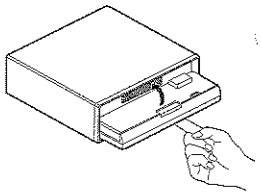
1. Press button [2] to open the front panel [4].



2. When a cassette tape is inserted into the cassette slot, power will be turned on and the tape will begin playing.

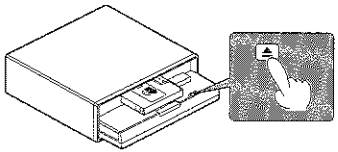


3. Close the front panel and adjust the volume and tone.



4. To stop playback, press button [3] or [19] to switch the source OFF.

5. To eject the cassette, press button [2] to open the front panel [4], then press the Eject button.



- When a cassette is already loaded, tape playback can be turned ON/OFF by pressing button [3] or [19].
- *Do not try to eject the cassette immediately after insertion, as it may result in malfunction. Only eject a cassette when it is playing.*

Continuous Playback Time

During tape playback, the continuous playback time is shown in [38] in the display.

- The continuous playback time count is halted at the following times.
  - — When the power is turned OFF.
  - — When you switch to another source.
  - — When fast-forwarding/rewinding and while the Music Search function is operating.
- The continuous playback time count starts at "00'00" at the following times.
  - — When a tape is inserted.
  - — When the tape direction is changed by pressing button [14].
  - — When the tape switches from side A to side B, or vice versa.

Tape Direction Switching

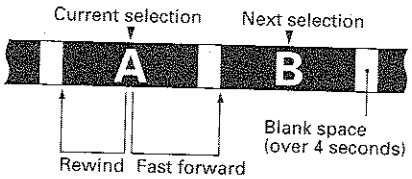
Pressing button [14] switches tape playback from side A to side B, or vice versa. ">>>>" is displayed in [37] when side A is playing, and "<<<<" when side B is playing.

Fast Forward/Rewind

1. To fast-forward a tape, press the ▶▶ side of button [17]. ("FF" appears in the display.)
   To rewind a tape, press the ◀◀ side of button [17]. ("REW" appears in the display.)
2. To cancel fast-forwarding or rewinding, press button [14].

Music Search

1. If you want to listen to an A track again from the beginning, press the ◀◀ side of button [17] twice in succession. ("R-MS" appears in the display.)
   If you want to listen to a B track from the start, press the ▶▶ side of button [17] twice in succession. ("F-MS" appears in the display.)
   Normal playback is restored by pressing the button three times in succession.



2. To cancel the music search function, press button [14].

- The Music Search function may not work properly with the following kinds of recorded tapes because the gap between tracks cannot be found correctly.
  — A tape with a gap of 4 seconds or less between tracks.
  — A tape containing dialog, etc., with pauses lasting for 4 seconds or longer.
  — A tape with an extremely quiet passage in the music lasting for 4 seconds or longer.

Dolby B and C NR

When playing a tape recorded with Dolby NR, press button ⑧ of bank [10]. Pressing button ⑧ of bank [10] switches alternately between Dolby NR modes as follows:
Dolby B NR ("DD" [36] lit) → Dolby C NR ("DDC" [36] lit) → Cancel

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
  "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Metal Tape Display

When a cassette tape is inserted, equalizer (70 μs/120 μs) switching is performed automatically by the auto tape selector feature, and when a metal or chrome tape is inserted, "MTL" [34] lights. Nothing is displayed for a normal tape.

Blank Skip

This function fast-forwards to the next track automatically if there is a long period of silence (12 seconds or more) between tracks.
Pressing button ⑨ of bank [10] switches the blank skip function ON and OFF alternately.

Radio Intercept and CD Intercept

The CD intercept function only works when an optional multi-CD player (such as the CDX-P1210) is used with this unit. Pressing button ⑩ of bank [10] switches the mode as follows:
Radio Intercept ("RI" [41] lit) → CD Intercept ("CDI" [40] lit) → Cancel

- The radio intercept and CD intercept functions do not work during a Music Search operation.

Radio Intercept

This function allows you to listen to the radio during tape fast-forwarding /rewinding.

1. Press button ⑩ of bank [10] to switch to the radio intercept mode. When fast-forwarding or rewinding is performed, the unit will switch to the radio.
2. To cancel the radio intercept mode, press button ⑩ of bank [10].

CD Intercept

This function allows you to listen to a CD during tape fast-forwarding/rewinding.

1. Press button ⑩ of bank [10] to switch to the CD intercept mode. When fast-forwarding or rewinding is performed, the unit will switch to the CD.
2. To cancel the CD intercept mode, press button ⑩ of bank [10].

Scan Playback

This function plays approximately the first 10 seconds of each track in succession. This is useful for finding a particular track you want to hear.

1. When button ⑪ of bank [10] is pressed, the first 10 seconds of each track is played in succession. ("SCAN" appears in the display.)
2. When you find the track you want to hear, press button ⑪ of bank [10] again to cancel scan playback and hear the rest of the track.

- The scan playback function may not work properly with the following kinds of recorded tapes because the gap between tracks cannot be found correctly.
  - — A tape with a gap of 4 seconds or less between tracks.
  - — A tape containing dialog, etc., with pauses lasting for 4 seconds or longer.
  - — A tape with an extremely quiet passage in the music lasting for 4 seconds or longer.

Repeat

The repeat function lets you hear the same track over again.

1. Pressing button ⑫ of bank [10] allows you to repeat the track being played. ("RPT" [39] lights.)
2. The repeat function can be canceled by pressing button ⑫ of bank [10] again, or pressing button [14].

- The repeat function may not work properly with the following kinds of recorded tapes because the gap between tracks cannot be found correctly.
  - — A tape with a gap of 4 seconds or less between tracks.
  - — A tape containing dialog, etc., with pauses lasting for 4 seconds or longer.
  - — A tape with an extremely quiet passage in the music lasting for 4 seconds or longer.

FLEX (Frequency Level Expander)

If the high-frequency performance is poor when playing back an old or poorly recorded cassette, you can improve it by pressing button ⑦ in Bank [10]. ("1 / f" [35] appears.)

- This function may have little effect on a casstte offering good sound quality, for instance, one recorded from compact disc.

Playing a CD

Precautions When Using the Multi-CD Control

- This unit can control multi-CD players when it is used with multi-CD player (such as the CDX-P1210).
- If the IP-BUS extension adapter is used, up to 4 multi-CD players can be connected. When two or more CD players are connected, their priorities must be specified for the Multi-CD players. See the Multi-CD players instructions and set the address switches correctly.

Parts Identification

Fig. 1

[3] Source Switching
[10], [11] Disc Number Search
[10] Functions
- ⑦ Display Switching/Disc Title
- ⑧ Pause/Random Playback
- ⑨ Title List/ITS Clear
- ⑩ ITS/ITS Playback
- ⑪ Scan Playback/Digital Compression
- ⑫ Playback Mode Switching /Track Number Search– Fast Forward, Rewind Switching

[12] Function Switching

Fig. 2

[14] Multi-CD Player Switching
[16] Disc Number Search
[17] Track Number Search/ Fast Forward, Rewind
[20] Source Switching

Fig. 5

[42] Multi-CD Player Number
[43] Disc Number
[44] Track Number
[45] Playback Time
[46] Function
[47] COMP
[48] One Track Repeat
[49] Disc Repeat
[50] Magazine Repeat
[51] Random
[52] Fast Forward/Rewind
[53] DBE

Using the Multi-CD Player

1. Press button [3] or [20] to switch the source to the multi-CD player. (The multi-CD player number [42], disc number [43], track number [44], and playback time [45] are displayed.)
   - When you turn the power on or change the disc to be played, the multi-CD player may perform a preparatory operation (veryfying there is a disc, reading disc information, etc.). "READY" is displayed during this time.
   - If the multi-CD player is unable to operate normally, an error message will appear on the display (e.g. "ERROR-80"). If this happens, check the meaning of the error message in the multi-CD player Instruction Manual.
2. To stop disc playback, press button [3] or [20] to switch the source OFF.
   - When CD playback is started again, it will begin near the track at which playback was stopped.

Switching functions

Button [10] has two functions. It switches ITS, random playback, etc. ON and OFF and it also serves as the disc number search. Press button [12] to switch the function as desired.

- If a multi-CD player of 6-disc continuous play is connected, switching between functions ON and OFF cannot be performed even if button [12] is pressed.

Functions ON ([46] lit)

When using buttons in bank [10] with a function such as ITS or random playback, you should first turn functions ON.

Functions OFF ([46] off)

When using buttons in bank [10] to search the disc number, you should first turn functions OFF.

Switching the multi-CD player

A maximum of 4 multi-CD players can be connected to this unit.
Press button [14] to choose the desired CD player. The number of the CD player is indicated in [42] on the display.

Disc number search

Select the disc using buttons [10] and [11]. The disc number is indicated in [43] on the display.

- Leave the function OFF when selecting a disc using button [10].
- When using the remote controller, the disc, set in the multi-CD player is switched each time the ▲ or ▼ side of button [16] is pressed.
- It takes a few seconds for CD playback to begin after a button is pressed. This is the time taken to change the disc.

Note:
Leave the function ON when using button [10] for the following operations.

Track Number Search

The track number search function lets you select a particular track on a disc. Check that "MANU" does not light in display [52]. If it does, turn it out by pressing button ⑫ of bank [10] for 2 seconds or more.
The track number [44] is incremented by pressing the ▶▶ side of button [17], and decremented by pressing the ◀◀ side. Holding down the button will increment/decrement the number continuously.

Fast Forward/Rewind

1. Press button ⑫ of bank [10] for 2 seconds or more. "MANU" [52] will light.
2. Press the ▶▶ side of button [17] to fast-forward, or the ◀◀ side to rewind.

- Playback can be heard while fast-forwarding or rewinding.

Pausing

The disc playback can be stopped temporarily by pressing ⑧ of button [10]. (The "PAUSE" will be displayed.) To cancel the pause, press the button again.

Repeat

You can select one of the play modes (repeat modes) listed below.

Play mode (repeat mode)	Operation
One-Track Repeat	Play the current track repeatedly. • When you perform track number search or fast forward or rewind, the mode changes to disc repeat mode. • Switching the multi-CD player being played or the disc switches to magazine repeat mode.
Disc Repeat	Play the same disc repeatedly. • Switching the multi-CD player being played or the disc switches to magazine repeat mode.
Magazine Repeat	Play all discs loaded in the magazine in the multi-CD player repeatedly. All discs in the magazine are played repeatedly from the first disc.
ALL Repeat*	The mode changes to this mode when 2 or more multi-play CD players are connected. Multi-CD players 1 to 4 are played.

* When 2 or more multi-CD players are connected.

Each press of button ⑫ in bank [10] causes the mode to change as follows:
One-Track Repeat ("RPT" [48] appears.) → Disc Repeat ("DISC" [49] appears.) → Magazine Repeat ("M-CD" [50] appears.) → ALL Repeat ([48] [49] [50] will disappear.)

Random Play

The microcomputer of the CD player selects plays tracks on discs in random order. Random play is performed according to the current play mode (repeat mode) as follows:

Play mode (repeat mode)	Tracks to be played at random
One-Track Repeat	All tracks on the disc being played. • The play mode changes to disc repeat mode.
Disc Repeat	All tracks on the disc being played.
Magazine Repeat	All tracks on the discs in the magazine being played.
ALL Repeat*	All tracks on all discs in multi-CD players 1 to 4.

* When 2 or more multi-CD players are connected.

1. Select the desired random play mode (repeat mode).
2. Hold down button ⑧ in bank [10] for more than 2 seconds. ("RDM" appears on the display [51].) To cancel random play, hold down button ⑧ in bank [10] for more than 2 seconds again. ("RDM" disappears.)

- Since selections are played in random order, the same selection may be played twice in succession.

Using Scan Play

The first parts of each track are played in succession for about 10 seconds. This function is useful to search for the track or disc you want to listen to. Scan is performed according to the current play mode (repeat mode) as follows:

Play mode (repeat mode)	Tracks to be scanned and played
One-Track Repeat	All tracks on the disc being played. • The play mode changes to disc repeat mode.
Disc Repeat	All tracks on the disc being played.
Magazine Repeat	The first tracks of all the discs in the magazine being played.
ALL Repeat*	First tracks of all discs loaded in multi-CD players 1 to 4.

* When 2 or more multi-CD players are connected.

1. Select the desired scan play mode (repeat mode).
2. Press button ⑪ in bank [10]. ("SCAN" appears on the display.) The first parts of all tracks are played in succession for about 10 seconds.
3. When you hear the track you want, press button ⑪ in bank [10] again to cancel Scan. ("SCAN" disappears.) The track (disc) being played is when played to the end.

- The previous function automatically resumes when a piece of music with which Scan began returns.

ITS (Instant Track Selection)

This function lets you program and play the tracks you want. You can listen to just your favorite tracks.

- The ADPS function* of the multi-CD player lets you program up to 100 discs. (Up to 100 discs can be programmed including disc title inputs.)
  * ADPS: Automatic Disc Program Selection
- Up to 99 tracks can be programmed for a single disc.
- From the 100th disc, the data for a new disc will overwrite the data of the oldest disc, that has not been played back (information has not been updated).
- Tracks are programmed for each disc. Programmed tracks are not erased after the disc is changed.

Programming

1. Play the track you want to program.
2. Press button ⑩ in bank [10] to program the track.
   ("ITS" appears on the display for 3 seconds.)

- Program tracks while ITS play is not in progress. It is possible during scan play or random play.

ITS Play

Tracks are played according to ITS play mode (repeat mode) as follows:

Play mode (repeat mode)	Tracks to be played by ITS
One-Track Repeat	Programmed tracks on the disc being played. • The play mode changes to disc repeat mode.
Disc Repeat	Programmed tracks on the disc being played.
Magazine Repeat	Programmed tracks on the discs in the magazine being played. • If the disc being played contains no programmed tracks, the next disc containing programmed tracks is played.
ALL Repeat*	Programmed tracks on all discs in all magazines in multi-play CD players 1 to 4. • If the disc (multi-CD) being played contains no programmed tracks, the next disc (multi-CD) containing programmed tracks is played.

* When 2 or more multi-CD players are connected.

1. Select the desired ITS play mode (repeat mode).
2. Hold down button 9 in bank [10] for more than 2 seconds. ("ITS.P" appears on the display.) To cancel ITS play, hold down button 9 in bank [10] for more than 2 seconds again. ("ITS.P" disappears.)

- If you try to play a track that is not programmed within the play range of the selected repeat mode by ITS, "EMPTY" will appear on the display for about 3 seconds, indicating that ITS play is not possible.
- You can perform scan play or random play during ITS play. In this case, scan play or random play applies to all the tracks stored in memory. (If the play mode is the magazine repeat mode or all repeat mode, scan play applies to all the tracks of the discs in the magazine stored in memory.)
- During ITS play, multi-CD players containing discs with programmed tracks are switched, and disc and track number search is performed on programmed tracks. So, you cannot switch to any tracks or discs that are not stored in memory.
- When you turn the power on or change the disc to be played, the multi-CD player may perform a preparatory operation (verifying there is a disc, reading disc information, etc.). "READY" is displayed during this time.

Erasing the ITS Program

You can erase one or all selections of the program for the disc being played by ITS.

To erase a single selection:

1. Start ITS play.
2. Play the track you wish to erase by using disc number search or track number search.
3. Hold down button 9 in bank [10] for more than 2 seconds.

- If programmed tracks are completely erased, "EMPTY" appears on the display and the ITS play will be canceled.

To erase the disc program:

1. Start normal play.
2. Play the disc you wish to erase by using disc number search.
3. Hold down button 9 in bank [10] for more than 2 seconds to erase the program. ("CLEAR" appears on the display for about 3 seconds.)

Disc Title Input

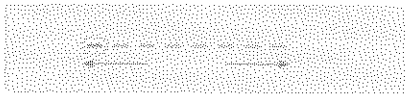
You can enter a title for the disc in the multi-CD player. The title stored for the disc can be displayed.

- The ADPS function* of the multi-CD player lets you enter titles for up to 100 discs. (Up to 100 discs, including ITS, can be programmed.)

  * ADPS: Automatic Disc Program Selection
- A disc title can consist of up 8 characters for a single disc.
- From the 100th disc, the data for a new disc will overwrite the data of the oldest disc, that has not been played back (information has not been updated).
- One title is stored for each disc. The title stored for a disc is not erased after the disc is changed.

Entering Titles

1. Select the disc for which you want to enter a title.
2. Hold down button "7" in bank [10] for more than 2 seconds to select title input mode.
3. Press the ◀◀ or ▶▶ side of button [17] to select the input position. The input position moves continuously when you hold down either side of the button.



4. Select characters using the ▲ or ▼ side of button [16]. When you hold down either side of the button, the character changes continuously. Each press of the ▲ side changes the character from "A → B → C . ", while each press of the ▼ side changes the character from "C → B → A". To enter a space, select the space sign [ ].
5. Enter all characters by repeating steps 3 and 4.
6. Press button "7" in bank [10] to store them in memory.
   The title will appear on the display.

Disc Title List

You can list all discs loaded in the magazine being played. This function is convenient for checking discs in the magazine being played.
Each press of button "9" in bank [10] displays the titles of the discs in magazine being played in ascending order of disc number.
The disc title list mode is displayed for about 8 seconds, then the normal operation display returns.

- Nothing is displayed for discs having no titles.
- Trays with no discs are skipped.

Select the disc to be played from the disc list display

1. Press button "9" in bank [10] to display the disc titles.
2. When the title of the disc you want to listen to is displayed, press button "7" in bank [10]. That disc is played.

Display Switching

Pressing button "7" of bank [10] switches between the elapsed playback time display and the disc title display alternately.
Press button [14] during title indication to make the track display and playback time display appear for about 8 seconds.

- Nothing is displayed for discs having no titles.

CD sound quality adjustment function

If you connect a Multi-CD player with COMP (Compression) and D.B.E. (Dynamic Bass Emphasis) functions to this unit, you can use these functions with this unit. (If you connect a Multi CD player that does not feature these functions, even if you try to switch to these functions, "NO COMP" is displayed, indicating that switching is not possible.)

COMP (Compression) function

This function suppresses loud sounds while boosting quiet sounds to reduce the difference between the two.
Use this function if there is distortion when you raise the volume.
When the COMP function is ON, "COMP" [47] lights in the display.

D.B.E. (Dynamic Bass Emphasis) function

When listening in a car, bass sound may be insufficient. This function boosts bass.
When the D.B.E. function is ON, "DBE" [53] lights in the display.

COMP and D.B.E. switching

You can switch between two COMP and D.B.E. levels.
Level switching of both functions at the same time is not possible.

1. Press button "1" in Bank [10] for more than 2 seconds to select the switching mode.
2. Each time you press button "1" in Bank [10], the mode changes as follows:
   COMP OFF → COMP 1 → COMP 2 → COMP OFF → DBE 1 → DBE 2 → COMP OFF

- With both COMP and D.B.E., the second mode is more effective.

Using the Clock

Parts Identification

Fig. 1
[9] Clock
[11] 1 Hour adjustment
2 Minute adjustment
3 Time signal adjustment

Displaying the Time

Pressing button [9] will turn the display to time indication. Pressing button [9] again will cancel the time indication.

- The clock display can be used only when the main unit is in operation.
- When the clock display is ON, pressing other buttons will release the clock display. The display will be restored approximately 25 seconds after the button operation has been completed.

Adjusting the Time

Adjusting Hours

While holding down button [9], press button 1 in bank [11], to adjust the hour setting of the clock. Each press of button 1 advances the hour setting by one hour, and holding it down advances the setting at high speed.

Adjusting the Minutes

While holding down button [9], press button 2 in Bank [11], to adjust the minute setting of the clock. Each press button 2 advances the minute setting by one minute and holding it down advances the setting at high speed.

- After the minute is adjusted, the clock will start from 0 second when button [9] is released.

Adjust the cock with the "Immedeate cock adjustment"

Hold down button [9] and press bottom 3 in Bank [11]. The time becomes "' :' :00"

- If the "minute" indication is 00 to 29, it is discarded, and the cock starts. (Example: If the time is "10:18", it becomes "10:00".)
- If the "minute" indication is 30 to 59, it is rounded up, and the clock starts. (Example: If the time is "10:36", it becomes "11:00".)

Learn Function

Parts Identification

Fig. 1
[5] Learn Mode

Fig. 2
[13] Learn

One of the buttons on this unit can be memorized in button [13] on the remote controller.

1. Press button [5] for 2 seconds or more to set the learn mode. ("LEARN" appears on the display.)
   - The learn mode is canceled after 8 seconds.
2. Press the button on the unit which you want to memorize in the remote controller.
   - Button [2] cannot be memorized.

Regarding the Cellular Telephone Muting

When a call is received or placed with a cellular telephone, the cellular telephone muting will turn ON. When the phone is hung up, the muting will be canceled.

- CD playback will be paused
- No sound is produced
- "CALL" will be displayed
- The audio operation can not be done except volume control

Specifications

General

Power source	14.4 V DC (10.8 – 16.6 V allowable)
Grounding system	Negative type
Max. current consumption	
(KEH-P9250, KEH-P8250)	8.0 A
(KEX-P820)	1.0 A
Dimensions	
(DIN) (chassis)	178 (W) × 50 (H) × 150 (D) mm
(nose)	188 (W) × 58 (H) × 16 (D) mm
(D) (chassis)	178 (W) × 50 (H) × 155 (D) mm
(nose)	179 (W) × 46 (H) × 11 (D) mm
Weight	
(KEH-P9250, KEH-P8250)	1.4 kg
(KEX-P820)	1.2 kg

Amplifier (KEH-P9250, KEH-P8250)

Continuous power output is 15 W per channel min. into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.

Maximum power output	35 W × 4 (EIAJ)
Load impedance	4Ω (4 — 8Ω allowable)
Preout output level/output impedance	500 mV/ 1 kΩ
Tone controls (bass)	± 12 dB (100 Hz)
(treble)	± 12 dB (10 kHz)
Loudness contour	+10 dB (100 Hz), +7 dB (10 kHz) (Volume: –30 dB)

Amplifier (KEX-P820)

Preout output level/output impedance	500 mV/ 1 kΩ
Tone controls (bass)	± 12 dB (100 Hz)
(treble)	± 12 dB (10 kHz)
Loudness contour	+10 dB (100 Hz), +7 dB (10 kHz) (Volume: –30 dB)

Subwoofer

Crossover frequency	80 Hz/ 80 Hz/ 125 Hz
Crossover slope	–12 dB/oct

Tape player

Tape	Compact cassette tape (C-30 – C-90)
Tape speed	4.8 cm/sec
Fast forward/rewind time	Approx. 100 sec. for C-60
Wow & flutter	0.09% (WRMS)
Frequency response	Metal: 30 – 19,000 Hz (±3 dB)
Stereo separation	
(KEH-P9250, KEH-P8250)	45 dB
(KEX-P820)	50 dB
Signal-to-noise ratio	
	Metal: Dolby C NR IN: 73 dB (IEC-A network)
	Metal: Dolby B NR IN: 67 dB (IEC-A network)
	Dolby NR OUT: 61 dB (IEC-A network)

FM tuner

Frequency range	87.5 – 108 MHz
Usable sensitivity	8 dBf (0.7 µV/ 75Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity	13 dBf (1.2 µV/ 75Ω, mono)
Signal-to-noise ratio	70 dB (IEC-A network)
Distortion	0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response	25 — 15,000 Hz (±3 dB)
Stereo separation	40 dB (at 65 dBf, 1 kHz)

AM tuner

Frequency range	531 – 1,602 kHz (9 kHz)
	530 – 1,710 kHz (10 kHz)
Usable sensitivity	18 µV (25 dB) (S/N: 20 dB)
Selectivity	50 dB (±9 kHz)
	50 dB (±10 kHz)

Note:

Specifications and the design are subject to possible modification without notice due to improvements.

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